

DEFENSE NUCLEAR FACILITIES SAFETY BOARD

April 7, 2017

TO: Steven Stokes, Technical Director
FROM: Bradford Sharpless, Idaho Cleanup Project Cognizant Engineer
SUBJECT: Idaho National Laboratory (INL) Report for March 2017

DNFSB Staff Activity: The Board's staff did not conduct any on-site activities at INL during March 2017. The Board's staff provided an average of 1.7 person-weeks per month of on-site oversight for the first six months of fiscal year 2017.

Integrated Safety Management System (ISMS) Review. A Department of Energy Idaho Operations Office (DOE-ID) review team completed an ISMS Phase I Verification of Fluor Idaho, LLC, (Fluor) the management and operating contractor for INL's Idaho Cleanup Project Core. The intent of the review was to evaluate the adequacy of Fluor's ISMS Description Document (ISMSDD) and the establishment of related programs. The review team also ensured that Fluor's ISMS documentation and programs conformed to DOE regulations, directives, policy, and guidance.

During the course of its review, the DOE-ID review team identified three Findings and two Observations. One of the Findings, a Management Finding, was closed during the review. At the end of the review, the review team concluded:

- Although there were some issues that need to be corrected, the Fluor ISMS programs were found to be adequately described in program documents and implementing procedures. Fluor management implementation of the ISMS Phase I was found to meet the objectives of the assigned criterion; and
- The Fluor safety management programs and institutional processes have been implemented at the site or corporate level. Based upon the crosswalk of Core Expectations (CE) to the evaluated criterion and that all of the criterion objectives were met, the team concluded that all nine of the CEs have been effectively implemented.

DOE-ID subsequently approved the ISMSDD based upon the review team's recommendation. DOE-ID will conduct a follow-on ISMS Phase II Verification when Fluor completes all corrective actions from the Phase I Verification and declares readiness.

Integrated Waste Treatment Unit (IWTU). Operators at IWTU conducted a functional test of the facility's processing systems using waste simulant during March 15–28, pausing the waste simulant feed occasionally to perform corrective actions on various pieces of equipment. Managers made the decision to end the test run when high differential temperatures were observed within IWTU's Denitration Mineralization Reformer (DMR). Engineers believe that planned modifications to the DMR will correct this issue during future operations. The newly designed auger-grinder at the base of the DMR appeared to perform as intended.